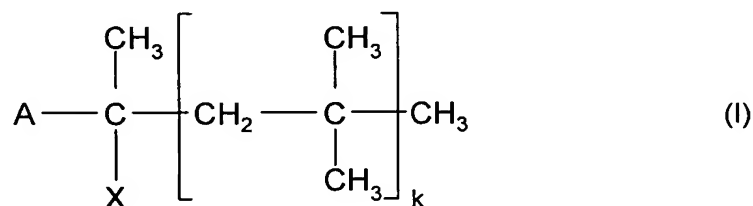


## IN THE CLAIMS

Please amend the claims as follows:

Claim 1 (Currently Amended): A process for preparing a bifunctional polyisobutene ~~polyisobutenes, which comprises~~ comprising polymerizing isobutene or an isobutene-containing monomer mixture in the presence of a Lewis acid and a compound of the formula

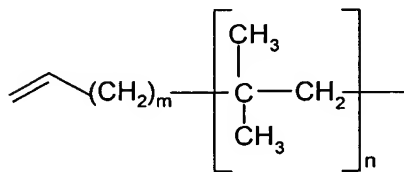
I



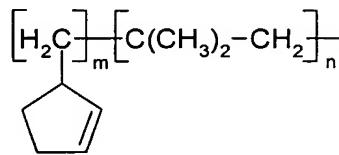
where

X is halogen, C<sub>1</sub>-C<sub>6</sub>-alkoxy or C<sub>1</sub>-C<sub>6</sub>-acyloxy,

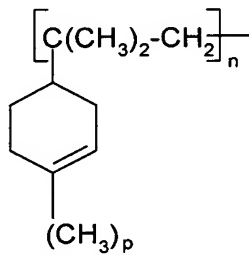
A is a radical of the formulae A.1, A.2 or A.3



A.1



A.2



A.3

where in A.1

m is 0 and n is 1 or 2; or

m is 1 and n is 0, 1 or 2; and

in A.2 and A.3

m is 0 or 1;

n is from 0 to 3 and

p is 0 or 1, and

k is from 0 to 5.

Claim 2 (Currently Amended): ~~A~~The process as claimed in claim 1, wherein A is a radical of the formulae A.2 or A.3.

Claim 3 (Currently Amended): ~~A~~The process as claimed in ~~any of the preceding claims~~ claim 1, wherein the compound of the formula I is at least one compound selected from the group consisting of 2-chloro-2-methyl-4-pentene, 2-chloro-2,4,4-trimethyl-5-hexene, 2-chloro-2-methyl-3-(cyclopenten-3-yl)propane, 2-chloro-2-methyl-4-(cyclohexen-4-yl)pentane and 2-chloro-2-(1-methylcyclohexen-4-yl)propane.

Claim 4 (Currently Amended): ~~A~~The process as claimed in ~~any of the preceding claims~~ claim 1, wherein the Lewis acid is at least one Lewis acid selected from ~~among the group consisting of~~ titanium tetrachloride, boron trichloride, tin tetrachloride, aluminum trichloride, dialkylaluminum chlorides, alkylaluminum dichlorides, vanadium pentachloride, iron trichloride and boron trifluoride.

Claim 5 (Currently Amended): ~~A-The~~ process as claimed in ~~any of the preceding~~  
~~claims~~ claim 1, wherein the reaction is additionally carried out in the presence of an electron  
donor.

Claim 6 (Currently Amended): ~~A-The~~ process as claimed in claim 5, wherein the  
electron donor is at least one compound selected from ~~among the group consisting of~~  
pyridines, amides, lactams, ethers, amines, esters, thioethers, sulfoxides, nitriles, phosphines  
and nonpolymerizable, aprotic organosilicon compounds which bear at least one organic  
radical bound via oxygen.

Claim 7 (Currently Amended): ~~A-The~~ process as claimed in ~~any of the preceding~~  
~~claims~~ claim 1, wherein the polymerization is stopped by addition of a protic compound.

Claim 8 (Currently Amended): ~~A-The~~ process as claimed in claim 7, wherein the  
product obtained by stopping the polymerization by means of a protic compound is  
subsequently treated thermally or with a base.

Claim 9 (Currently Amended): ~~A-The~~ process as claimed in ~~any of the preceding~~  
~~claims~~ claim 1, wherein ~~the~~ a living polyisobutene formed ~~in the~~ during the polymerization of  
isobutene or of the isobutene-containing monomer mixture is reacted with at least one  
comonomer before the polymerization is stopped.

Claim 10 (Currently Amended): ~~A-The~~ process as claimed in ~~any of the preceding~~  
~~claims~~ claim 9, wherein the living polyisobutene formed in the polymerization of isobutene

or of the isobutene-containing monomer mixture is reacted with a conjugated diene before the polymerization is stopped.

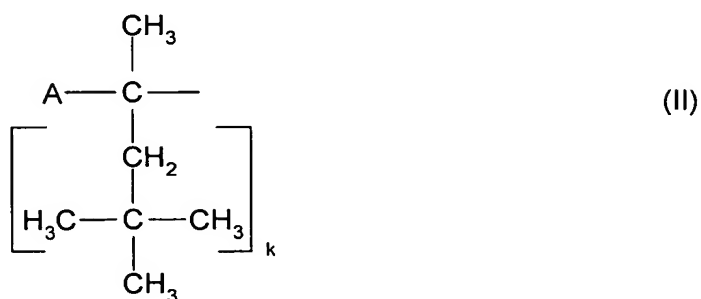
Claim 11 (Currently Amended): ~~A-The process as claimed in any of claims 1 to 6~~ claim 9, wherein the living polyisobutene formed in the polymerization of isobutene or of the isobutene-containing monomer mixture is reacted with a trialkylallylsilane compound or 1,1-diphenylethene together with a base.

Claim 12 (Currently Amended): ~~A-The process as claimed in any of claims 1 to 6~~ claim 9, wherein the living polyisobutene formed in the polymerization of isobutene or of the isobutene-containing monomer mixture is reacted with a coupling agent so that two or more polymer chains are joined together via their distal end.

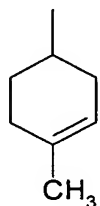
Claim 13 (Currently Amended): ~~A-The process as claimed in claim 12, wherein the~~ coupling agent is selected from the group consisting of ~~among~~

- i) compounds having at least two 5-membered heterocycles containing a heteroatom selected from among oxygen, sulfur and nitrogen,
- ii) compounds having at least two trialkylsilyl groups in allylic positions, and
- iii) compounds having at least two vinylidene groups conjugated with two aromatic rings.

Claim 14 (Currently Amended): A polyisobutene which is terminated at at least one end of the molecule by a group of the formula II



where A is a group of the formula A.3.1



A.3.1

and k is as defined in claim 1,

or a functionalization product thereof which is ~~obtainable~~ obtained by

- i) hydrosilylation,
- ii) hydrosulfurization,
- iii) electrophilic substitution on aromatics,
- iv) epoxidation and, ~~if desired~~ optionally, reaction with nucleophiles,
- v) hydroboration and, ~~if desired~~ optionally, oxidative cleavage,
- vi) reaction with an enophile in an ene reaction,
- vii) addition of halogens or hydrogen halides or
- viii) hydroformylation.